

# Global High Purity Etching Gas Market Research Report 2024, Forecast to 2032

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## Abstracts

### Report Overview

Electronics manufacturing uses both wet and dry etching, but for different processes, much like using course- and fine-toothed saws to make different size and different quality cuts. In wet etching, aqueous solutions of acids or bases are used to quickly remove large amounts of material, or to completely remove a particular material. Dry etching uses plasma-activated etchant gases, usually containing halogen atoms, to selectively remove a portion of a material with greater precision and accuracy than wet etching can achieve. It is the dry etching process, often referred to as reactive ion etching or RIE. The etching process requires a chemical reaction between the electron gas and the etched material. The etching process requires a large amount of fluorocarbon gases, such as hexafluoroethane, carbon tetrafluoride, trifluoromethane, octafluorocyclobutane, octafluorobutane, etc. The etched gas undergoes a chemical reaction with the etched material, resulting in the elimination of the etched material. In the etching process of wafer manufacturing, especially in the dry etching process, in order to achieve directional etching, it is necessary to use electronic special gases to form plasma under ionization conditions. The plasma undergoes chemical or physical reactions with the etched material to remove a portion of the etched material. Different electron gases are also used for reactions in different etching targets. The commonly used etching gases include fluorinated and chlorinated gases, as well as oxygen-containing gases and some rare gases.

The global High Purity Etching Gas market size was estimated at USD 780 million in 2023 and is projected to reach USD 1680.14 million by 2032, exhibiting a CAGR of 8.90% during the forecast period.

North America High Purity Etching Gas market size was estimated at USD 235.44 million in 2023, at a CAGR of 7.63% during the forecast period of 2024 through 2032.

This report provides a deep insight into the global High Purity Etching Gas market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global High Purity Etching Gas Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the High Purity Etching Gas market in any manner.

### Global High Purity Etching Gas Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### Key Company

Linde

SK Materials

Kanto Denka Kogyo

ADEKA

PERIC Special Gases

Merck (Versum Materials)

Showa Denko

Nippon Sanso

Hyosung

Air Liquide

Haohua Chemical

Zibo Feiyuan Chemical

Kemeite (Yoke Technology)

Solvay

Huate Gas

Yongjing Technology

Air Products

Jinhong Gas

Concorde Specialty Gases

Linggas

Foosung

Wonik Materials

DIG AIRGAS

TEMC

Market Segmentation (by Type)

Fluorine Containing Gas

Chlorine Containing Gas

Oxygen Containing Gas

Others

Market Segmentation (by Application)

Integrated Circuits

Display Panels

Solar

LED

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the High Purity Etching Gas Market

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